

Multiple Section Network

Example with MLC and 3 ISR networks of different size and numbering

DSP - digital signal processor

SI_PLC - serial interface to process control network

(not drawn)

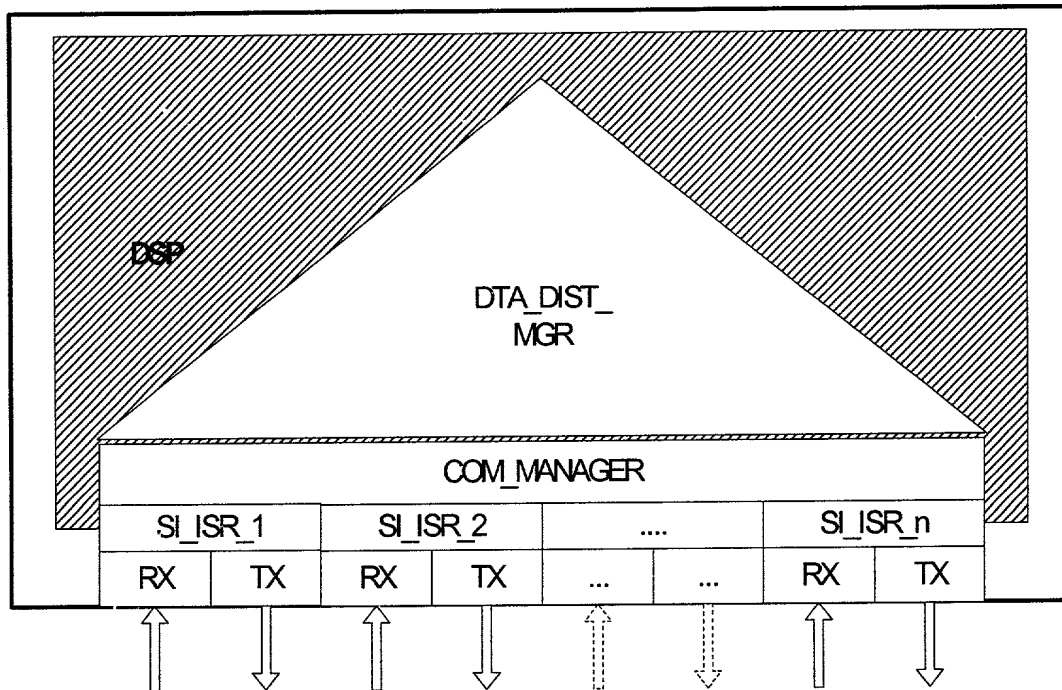
SI_ISR - serial interface to inter SDC network

SI_DRV - serial interface to drive network (not drawn)

Fig. 1

II/VIII

MLC



MLC - Multi Link Controller

DSP - digital signal processor

DTA_DIST_MGR - module to manage the data flow between the networks

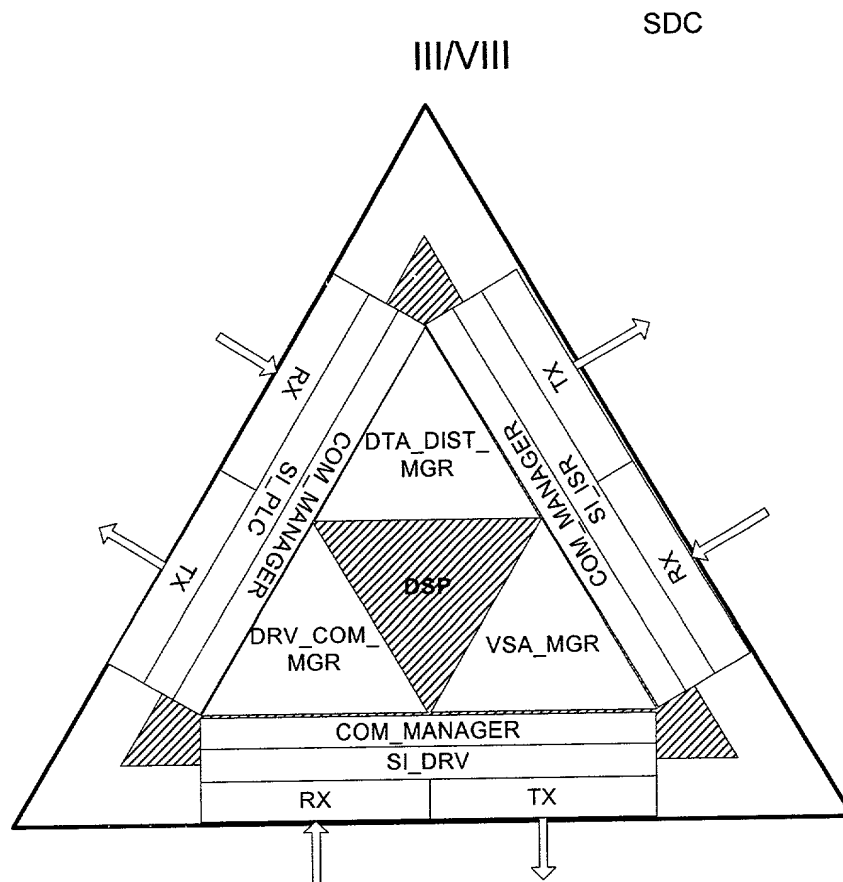
SI_ISR_x - serial interface to inter SDC network x

COM_MANAGER - modules to manage the communication over that interface

TX - transmit interface at communication interface

RX - receive interface at communication interface

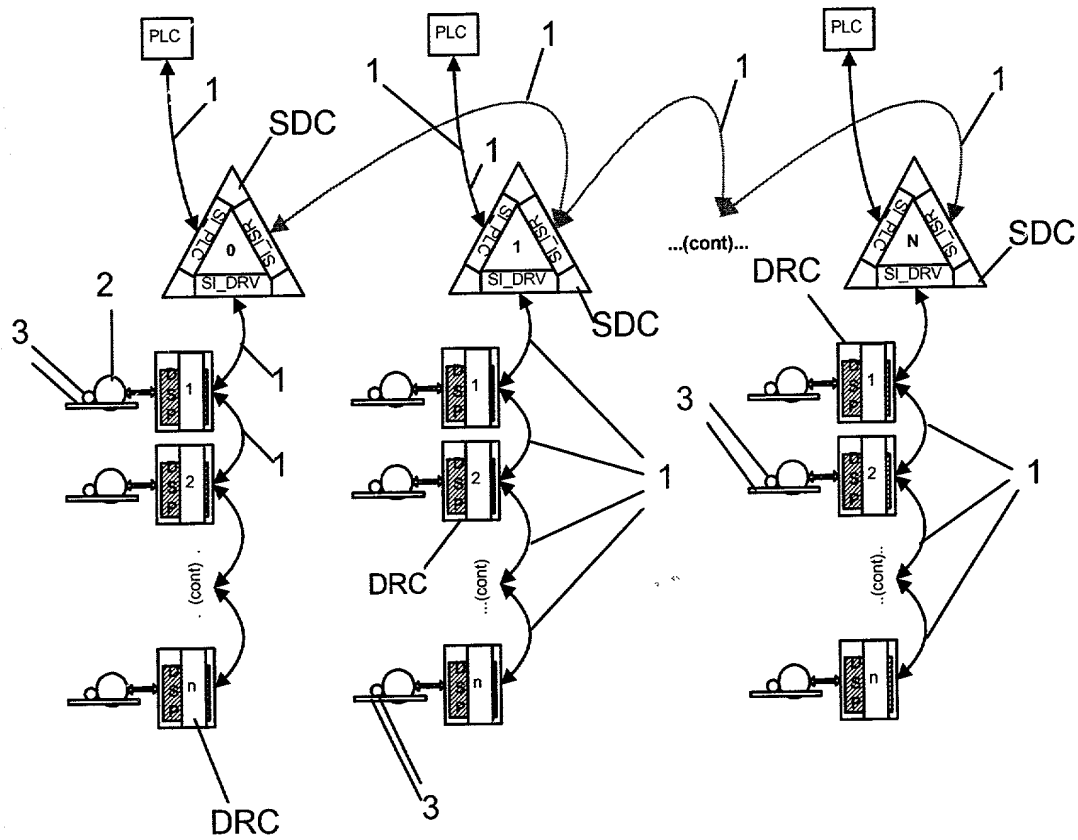
Fig. 2



SDC - SyncDrive Controller

DSP - digital signal processor
 DRV_COM_MGR - module to manage the data flow from and to drive network
 VSA_MGR - module to manage the virtual synchronisation axis function
 DTA_DIST_MGR - module to manage the data flow between the networks
 SI_PLG - serial interface to process control network
 SI_ISR - serial interface to inter SDC network
 SI_DRV - serial interface to drive network
 COM_MANAGER - modules to manage the communication over that interface
 TX - transmit interface at communication interface
 RX - receive interface at communication interface

Fig. 3

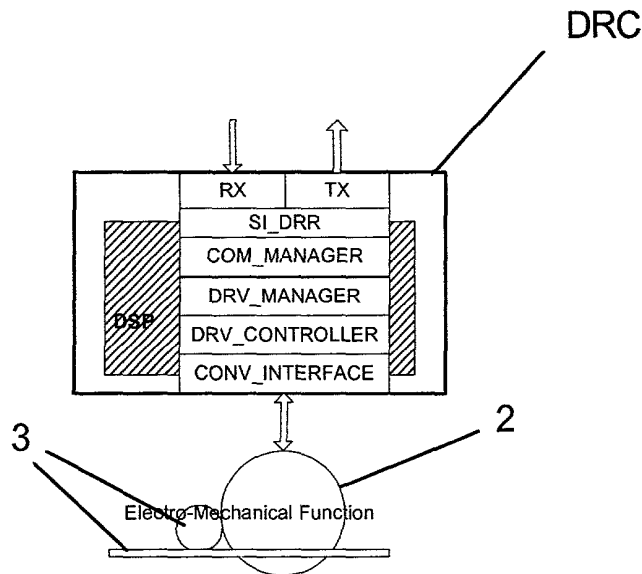


Single Section Network

- DSP - digital signal processor
- SI_PLG - serial interface to process control network
- SI_ISR - serial interface to inter SDC network
- SI_DRV - serial interface to drive network
- 0 - master of communication
- 1, N - slaves to communication

Fig. 4

V/VIII



DRC - Drive Controller

DSP - digital signal processor
 CONV_INTERFACE - module to manage the motor converter
 DRV_CONTROLLER - module to control the drive (torque, acceleration, speed, position, actual & set values, etc.)
 DRV_MANAGER - module to manage the drive function (technology, behaviour, diagnostics, etc.)
 SI_DRR - serial interface to drives network
 COM_MANAGER - modules to manage the communication over that interface
 TX - transmit interface at communication interface
 RX - receive interface at communication interface

Fig. 5

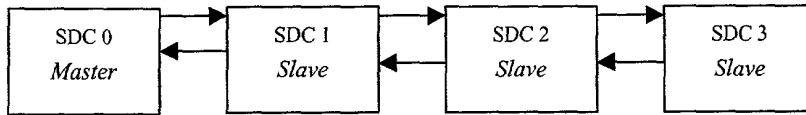


Fig. 6

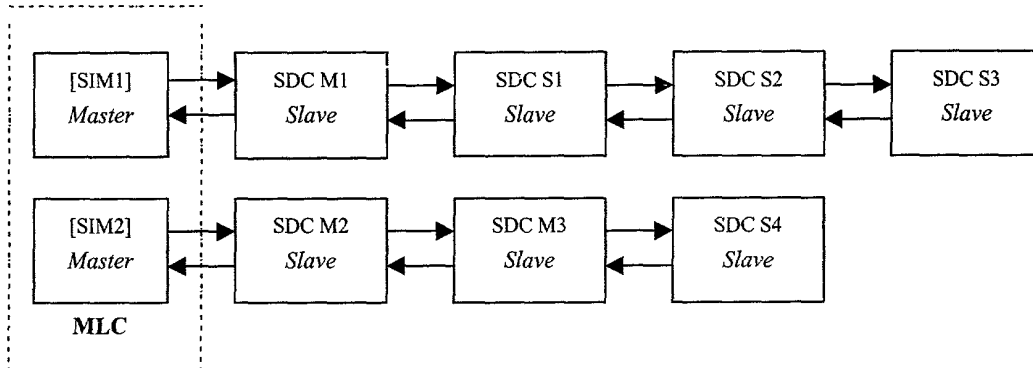


Fig. 7

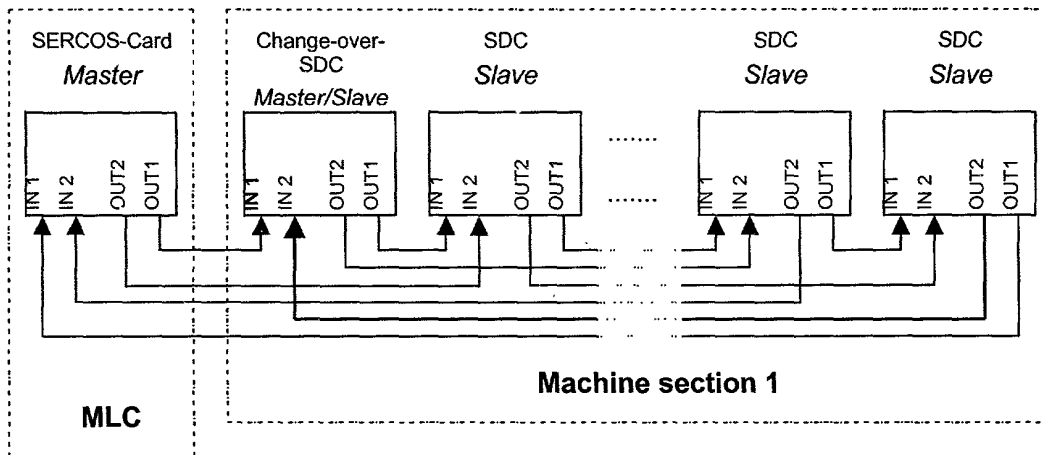


Fig. 8

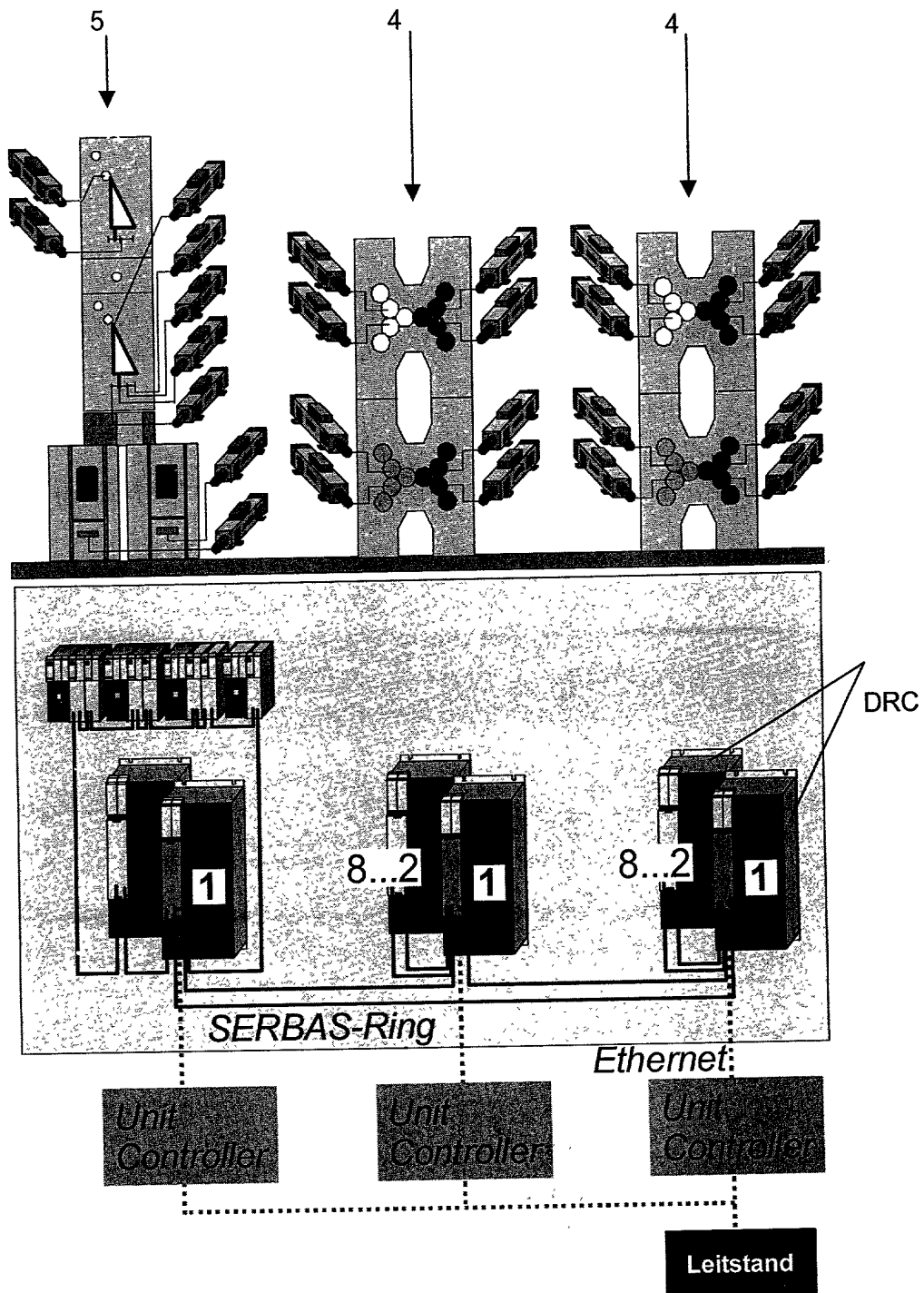


Fig. 9

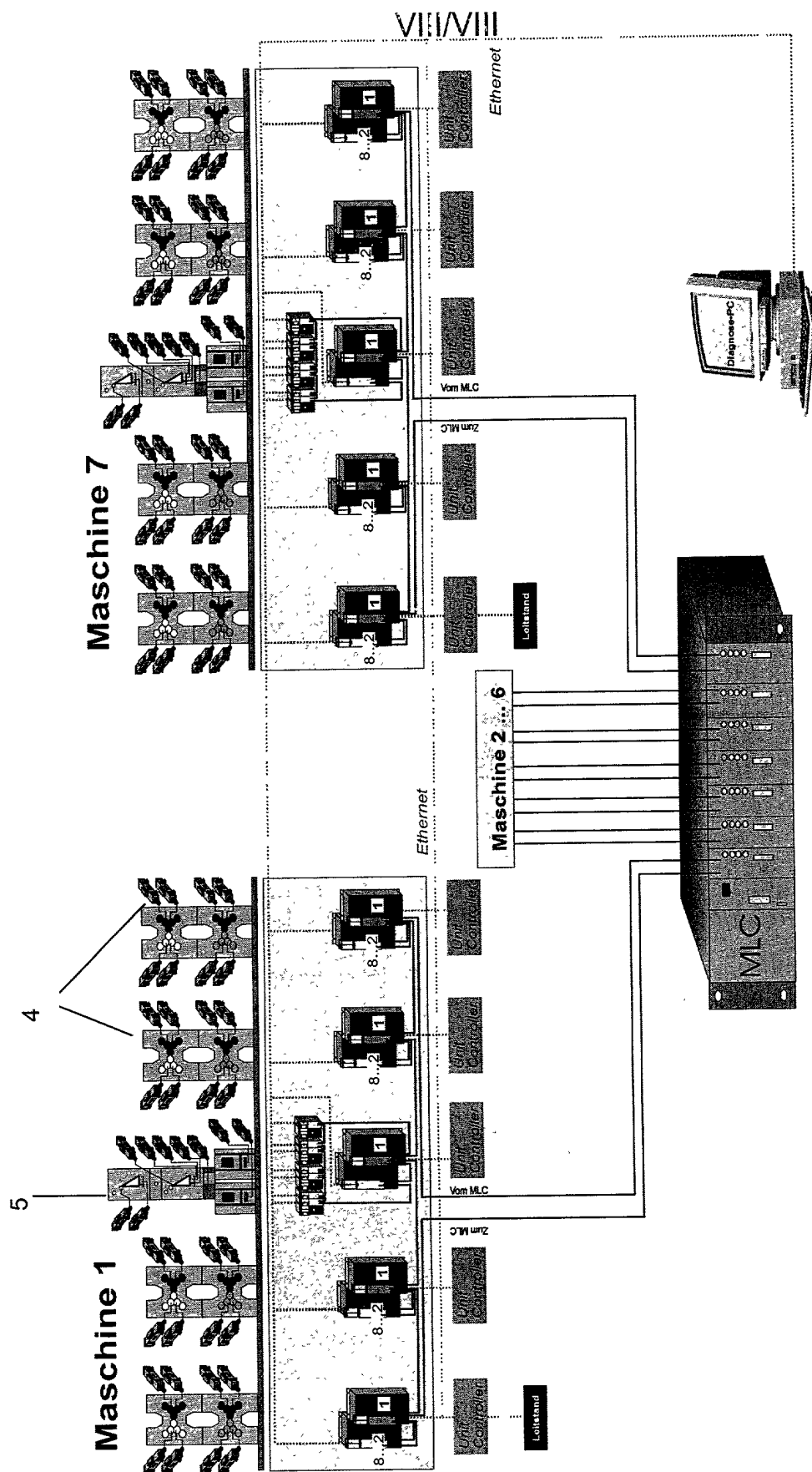


Fig. 10

SIM1 ... SIM7